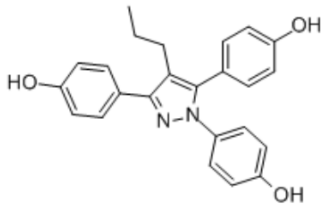
Propyl pyrazole triol

Cat. No.:	HY-100689
CAS No.:	263717-53-9
Molecular Formula:	$C_{24}H_{22}N_2O_3$
Molecular Weight:	386.44
Target:	Estrogen Receptor/ERR
Pathway:	Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (258.77 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.5877 mL	12.9386 mL	25.8772 mL
5 mM	0.5175 mL	2.5877 mL	5.1754 mL
10 mM	0.2588 mL	1.2939 mL	2.5877 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
   Solubility: ≥ 10 mg/mL (25.88 mM); Clear solution
2. Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
   Solubility: ≥ 10 mg/mL (25.88 mM); Clear solution
3. Add each solvent one by one: **10% DMSO >> 90% corn oil**
   Solubility: ≥ 10 mg/mL (25.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Propyl pyrazole triol (PPT) is an **estrogen receptor alpha (ERα)** agonist. The relative binding affinity of Propyl pyrazole triol for ERα (ERα: 49%) around 410 times higher compared with estrogen receptor beta (ERβ: 0.12%)[1].

IC_{50} & Target

Estrogen receptor alpha[1]

In Vitro

The EC_{50} of Propyl pyrazole triol for the ERα-dependent response is 140 pM in ERα-U2OS-Luc cells[1].

REFERENCES

[1]. https://www.ncbi.nlm.nih.gov/pubmed/18644836/

[2]. Stauffer SR, et al. Pyrazole ligands: structure-affinity/activity relationships and estrogen receptor-alpha-selective agonists. J Med Chem. 2000 Dec 28;43(26):4934-47.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA